



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Arthur G. Taveras, et al.

Examiner: To Be Assigned

Serial No.: 10/630,258

Group Art Unit: 1614

Filed: 07/30/2003

Atty. Docket No.: OC01406K5

For: **3,4-DI-SUBSTITUTED CYCLOBUTENE:
-1,2- DIONES AS CXC-CHEMOKINE
RECEPTOR LIGANDS**

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

(a) Pursuant to Rule 56, it is requested that the documents listed on the accompanying PTO-1449 Form be considered and made of record in the above-identified patent application. Copy(ies) of these references ☒ are attached ☐ were filed in related application U.S. Serial No(s) _____ filed _____, respectively.

(b) No fee is believed due because:

- ☐ This Information Disclosure Statement is being filed within three (3) months of the filing date of the application.
- ☐ This Information Disclosure Statement is being concurrently filed with the above-identified application.
- ☐ This Information Disclosure Statement is being concurrently filed with a Request for Continued Examination (RCE).
- ☒ This Information Disclosure Statement is being filed prior to the mailing of a first Office Action on the merits.

(c) ☐ This Information Disclosure Statement is being filed before the mailing date of any final action, notice of allowance or an action that otherwise closes prosecution; and

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement; or



(d)



☐ The Commissioner is hereby authorized to charge the requisite fee listed on the attached Fee Transmittal Sheet.

☐ This Information Disclosure Statement is being filed on or before the payment of the issue fee; and

☐ Each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or

☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement; and

☐ The Commissioner is hereby authorized to charge the requisite fee listed on the attached Fee Transmittal Sheet.

☒ The Commissioner is hereby authorized to charge any additional fees which may be required for this Information Disclosure Statement, or credit any overpayment to Deposit Account No. 19-0365, Patent Case No. OC01406K5. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

Respectfully submitted,
SCHERING-PLOUGH CORPORATION

Dated: April 5, 2004
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I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VIRGINIA 22313-1450 ON April 5, 2004
(DATE OF DEPOSIT)

HENRY C. JEANETTE, 30,856
(REGISTERED REPRESENTATIVE)

Henry C. Jeanette
(SIGNATURE AND DATE)

Sheet 1 of 2

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.:

OC01406K5

SERIAL NO.:

10/630,258

INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

APPLICANT:

Arthur G. Taveras, et al.

FILING DATE:

07/30/2003

GROUP:

1614

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	AA	6,420,396 B1	07/16/02	Albers, et al.			
	AB	5,206,252	04/27/93	Butera, et al.			
	AC	5,354,763	10/11/94	Butera, et al.			
	AD	5,397,790	03/14/95	Butera, et al.			
	AE	5,401,753	03/28/95	Butera, et al.			
	AF	5,403,853	04/04/95	Butera, et al.			
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	AH	5,506,252	04/09/96	Butera, et al.			
	AI	5,532,245	07/02/96	Butera, et al.			
	AJ	6,376,555 B1	04/23/02	Butera, et al.			
	AK	4,170,588	10/09/79	Hegenberg, et al.			
	AL	4,639,523	01/27/87	Nohara, et al.			
	AM	5,840,764	11/24/98	Quagliato, et al.			
	AN	2001/0018447 A1	08/30/01	Widdowson, et al.			
	AO	6,300,325 B1	10/09/01	Widdowson, et al.			

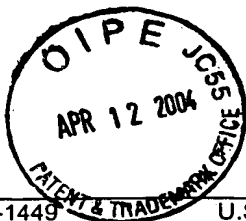
FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
	AP	EP 0 376 079 A	07/04/90	EP				
	AQ	EP 0 275 997 A	07/27/88	EP				
	AR	EP 0 796 243 B1	01/27/99	EP				
	AS	DE 33 09 655 A1	09/20/84	GERMANY				
	AT	GB 1,186,096	04/02/70	Great Britain				
	AU	WO 94/29277	12/22/94	WIPO				
	AV	WO 95/14005	05/26/95	WIPO				
	AW	WO 96/14300	05/17/96	WIPO				
	AX	WO 96/15103	05/23/96	WIPO				
	AY	WO 98/33763	08/06/98	WIPO				
	AZ	WO 00/20378	04/13/00	WIPO				
	BA	WO 00/21927 A	04/20/00	WIPO				
	BB	WO 00/35855	06/22/00	WIPO				
	BC	WO 00/35864	06/22/00	WIPO				
	BD	WO 00/73260 A1	12/07/00	WIPO				
	BE	WO 01/29000 A2	04/26/01	WIPO				
	BF	WO 01/64208 A1	09/07/01	WIPO				
	BG	WO 01/64691 A1	09/07/01	WIPO				
	BH	WO 01/68569 A2	09/20/01	WIPO				
	BI	WO 01/92202 A1	12/06/01	WIPO				
	BJ	WO 02/067919	09/06/02	WIPO				
	BK	WO 02/057230		WIPO				
	BL	WO 02/076926 A	10/03/02	WIPO				
	BM	WO 03/080053 A1	10/02/03	WIPO				
	BN	WO 02/083624 A1	10/24/02	WIPO				

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: OC01406K5	SERIAL NO.: 10/630,258
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				APPLICANT: Arthur G. Taveras, et al.	
				FILING DATE: 07/30/2003	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
BO	esp@cenet Document, "1,2,5-Thiadiazole-1-oxides and 1,1-dioxides, process for their preparation and their use as medicaments" (for DE3309655 which is attached to said esp document)				
BP	Chemical Abstract 66:18527 for Maahs, Guenther, et al., "Syntheses and derivatives of squaric acid," <i>Angewandte Chemie</i> 78(20):927-31 (1966) (which is attached to said abstract)				
BQ	Chemical Abstract 87:134383 for Augustin Manfred, et al., "Disubstitution in 2,3-dichloromaleimides" <i>Zeitschrift Fuer Chemie</i> 17(6):215-216 (1977) (which is attached to said abstract)				
BR	Chemical Abstract No. 87:151727 for Ehrhardt, Heinz, et al., "Amides and thioamides of squaric acid: syntheses and reactions," <i>Chemische Berichte</i> 110(7):2506-23 (1977) (which is attached to said abstract)				
BS	Chemical Abstract 104:129517 for Gruenefeld, Johann, et al., "Reactions of squaric acid with carbodiimides," <i>Archiv der Pharmazie</i> 318(12):1062-70 (1985) (which is attached to said abstract)				
BT	Chemical Abstract No. 122:160745 for Tillack, Annegret, et al., "Assymmetric catalysis. IV. Hydrosilylation of acetophenone with pyrrolidine-2,5-dione modified [Rh(COD)C1]2 catalyst," <i>Journal of Organometallic Chemistry</i> 482:84-91 (1994) (which is attached to said abstract)				
BU	Chemical Abstract No. 125:300482 for Chen, Yizhao, et al., "Reaction of dibutyl oxosquarate with aromatic primary amines," <i>Sichuan Daxue Xuebao, Ziran Kexueban</i> 33(2):182-186 (1996) (which is attached to said abstract)				
BV	Chemical Abstract No. 130:222994 for Chen, Yi-Zhao, et al., "Synthesis of asymmetric aryl-substituted amides of squaric acid and asymmetric isosquarylium amides," <i>Hechen Huaxue</i> 6(4):383-392 (1998) (which is attached to said abstract)				
BW	Butera, John A., et al., "Design and SAR of Novel Potassium Channel Openers Targeted for Urge Urinary Incontinence. 1. N-Cyanoguanidine Bioisosteres Possessing in Vivo Bladder Selectivity," <i>J. Med. Chem.</i> 43:1187-1202 (2000)				
BX	Davis, Peter D., et al., "Inhibitors of protein kinase C 1. 2,3-Bisarylmalimides," <i>J. Med. Chem.</i> 35:177-184 (1992)				
BY	Hanaineh-Abdelnour, Leila, et al., "Some synthetic applications of 2,3-Dichloro-N-phenylmaleimide: A Novel Synthesis of 2-Phenylpyrrolo[3,4-b]quinoxaline-1,3-diones. I," <i>Tetrahedron</i> 55:11859-11870 (1999)				
BZ	Neuse, Eberhard W., et al., "Poly(squaryl amides)" <i>Polymer</i> 15:339-45 (1974)				
CA	Patent Abstracts of Japan, vol. 018, no. 361 (c-1222), July 7, 1994 and JP 06 092915A, April 5 1994 abstract				
CB	Zhou, Hai-Bing, et al., "Design, synthesis and structure of new chiral squaric acid monoaminoalcohols and diaminoalcohols and their use as catalysts in asymmetric reduction of ketones and diketones," <i>Tetrahedron</i> 57:9325-9333 (2001)				
CC	U.S. Pub. No. 2003/0204085 [10/30/2003] for Serial No. 10/208,426 filed 07/30/2002				
CD	U.S. Pub. No. 2004/0034229 [02/19/2004] for Serial No. 10/269,775 filed 10/11/2002				
CE	Serial No. 10/335,789 filed 01/02/2003				
CF	Serial No. 10/390,078 filed 03/17/2003				
CG	Serial No. 10/680,393 filed 10/07/2003				
CH	PCT International Search Report dated August 2, 2002 for related PCT Application No. PCT/US02/12681				
CI	PCT International Search Report dated November 17, 2003 for related PCT Application No. PCT/US03/23722				
CJ	PCT International Search Report dated November 17, 2003 for related PCT Application No. PCT/US03/23785				
EXAMINER				DATE CONSIDERED	
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